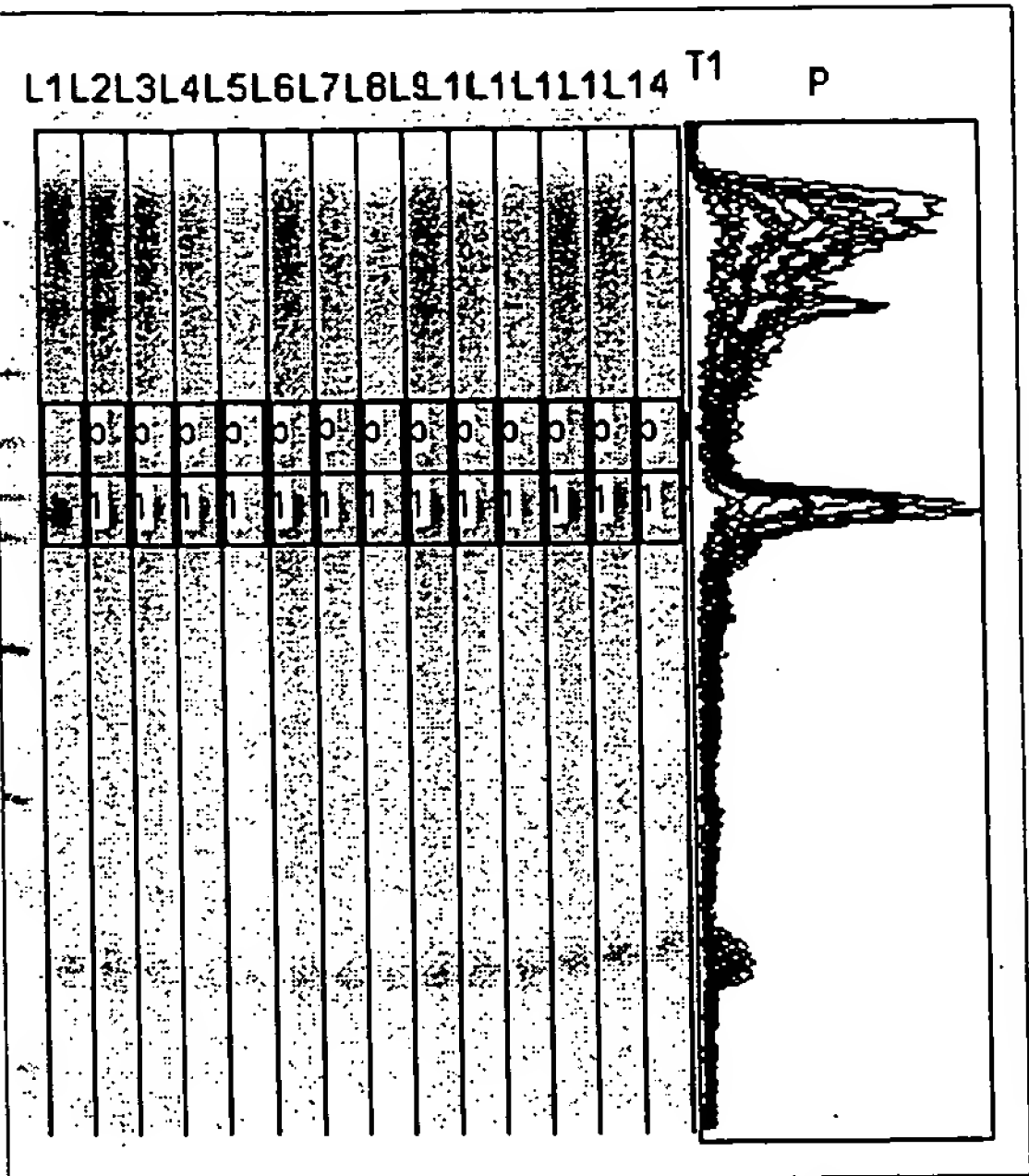


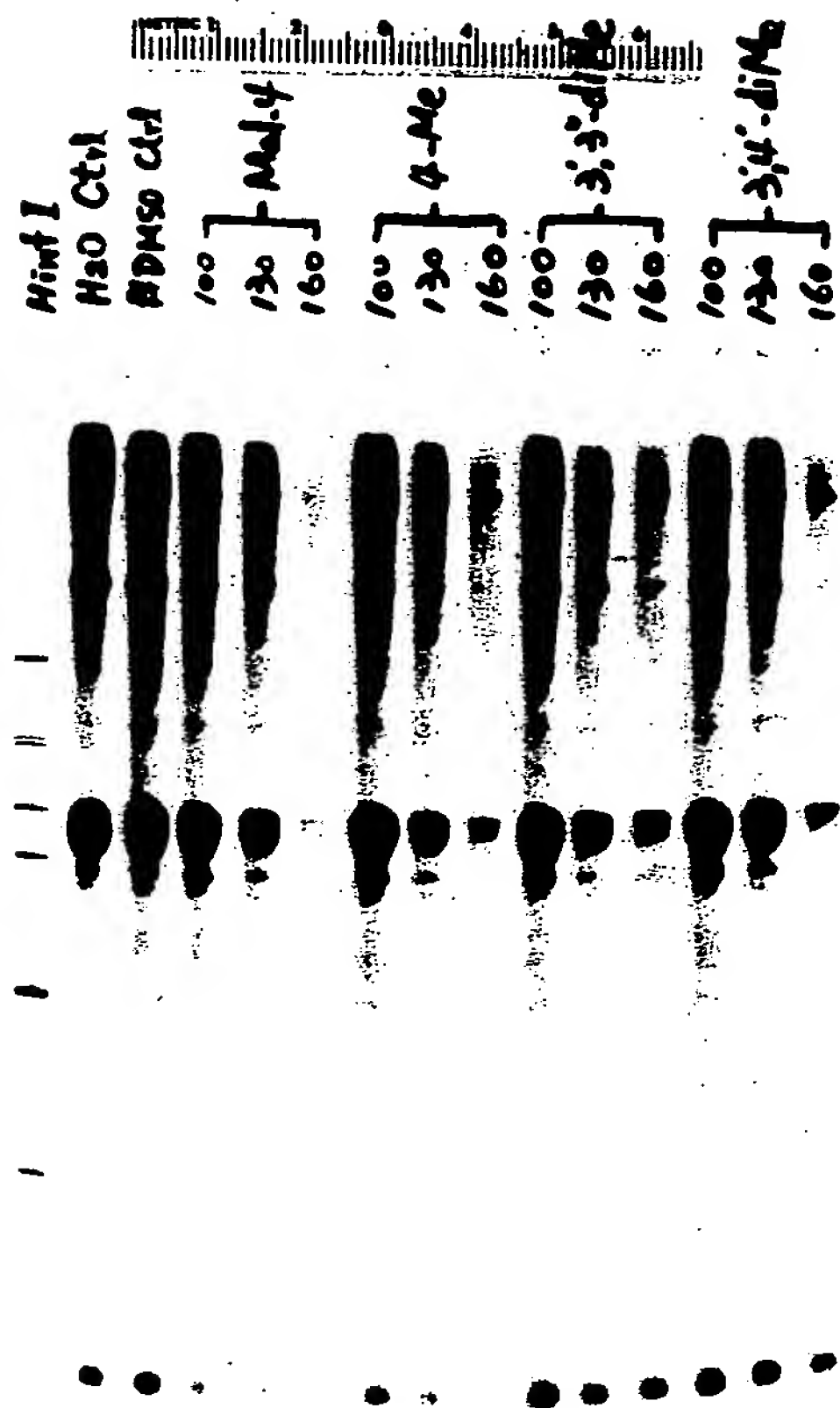
DOCUMENT I
INHIBITION OF HIV AND
HSV TRANSCRIPTION BY
METHYLATED NOGA

WORK WAS ACCOMPLISHED
IN THE FIRST 6 MONTHS
OF 1996 IN ROOM 249
LEVI BUILDING, JOHNS
HOPKINS UNIVERSITY,
INVENTORS LAB.

#T1 Lanes
Background Subtraction: regions



ID	Dist (mm)	Type	Gross Counts
Lane #1 Bkgd subtr =12.62/sqmm			
2	42.5	Bkgd	757
1	53.0	Unkn	3,631
Lane #2 Bkgd subtr =19.38/sqmm			
2	42.5	Bkgd	1,163
1	53.0	Unkn	3,464
Lane #3 Bkgd subtr =16.07/sqmm			
2	42.5	Bkgd	964
1	53.0	Unkn	2,832
Lane #4 Bkgd subtr =12.20/sqmm			
2	42.5	Bkgd	732
1	53.0	Unkn	1,936
Lane #5 Bkgd subtr =6.13/sqmm			
2	42.5	Bkgd	368
1	53.0	Unkn	635
Lane #6 Bkgd subtr =17.23/sqmm			
2	42.0	Bkgd	1,034
1	53.0	Unkn	3,575
Lane #7 Bkgd subtr =11.30/sqmm			
2	42.5	Bkgd	678
1	53.0	Unkn	1,764
Lane #8 Bkgd subtr =8.08/sqmm			
2	42.5	Bkgd	485
1	53.0	Unkn	821
Lane #9 Bkgd subtr =16.23/sqmm			
2	42.5	Bkgd	974
1	53.0	Unkn	3,012
Lane #10 Bkgd subtr =10.90/sqmm			
2	42.5	Bkgd	654
1	53.0	Unkn	1,680
Lane #11 Bkgd subtr =8.38/sqmm			
2	42.5	Bkgd	503
1	52.5	Unkn	1,241



368	267	1,034	2,541	1,086	336	974	2,038	654	1,026	503	738
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ID	Dist Type (mm)	Gross Counts	Bkgd Subtr	Net Total
Lane #1	Bkgd subtr =12.62/sqmm			
2	42.5 Bkgd	757		
1	53.0 Unkn	3,631	757	2,874
Lane #2	Bkgd subtr =19.38/sqmm			
2	42.5 Bkgd	1,163		
1	53.0 Unkn	3,464	1,163	2,301
Lane #3	Bkgd subtr =16.07/sqmm			
2	42.5 Bkgd	964		
1	53.0 Unkn	2,832	964	1,868
Lane #4	Bkgd subtr =12.20/sqmm			
2	42.5 Bkgd	732		
1	53.0 Unkn	1,936	732	1,204
Lane #5	Bkgd subtr =6.13/sqmm			
2	42.5 Bkgd	368		
1	53.0 Unkn	635	368	267
Lane #6	Bkgd subtr =17.23/sqmm			
2	42.0 Bkgd	1,034		
1	53.0 Unkn	3,575	1,034	2,541
Lane #7	Bkgd subtr =11.30/sqmm			
2	42.5 Bkgd	678		
1	53.0 Unkn	1,764	678	1,086
Lane #8	Bkgd subtr =8.08/sqmm			
2	42.5 Bkgd	485		
1	53.0 Unkn	821	485	336
Lane #9	Bkgd subtr =16.23/sqmm			
2	42.5 Bkgd	974		
1	53.0 Unkn	3,012	974	2,038
Lane #10	Bkgd subtr =10.90/sqmm			
2	42.5 Bkgd	654		
1	53.0 Unkn	1,680	654	1,026
Lane #11	Bkgd subtr =8.38/sqmm			
2	42.5 Bkgd	503		
1	52.5 Unkn	1,241	503	738

Lane #12 Bkgd subtr =15.18/sqmm

2 42.5 Bkgd 911

1 52.5 Unkn 3,114

911

2,203

Lane #13 Bkgd subtr =11.92/sqmm

2 42.5 Bkgd 715

1 52.5 Unkn 2,438

715

1,723

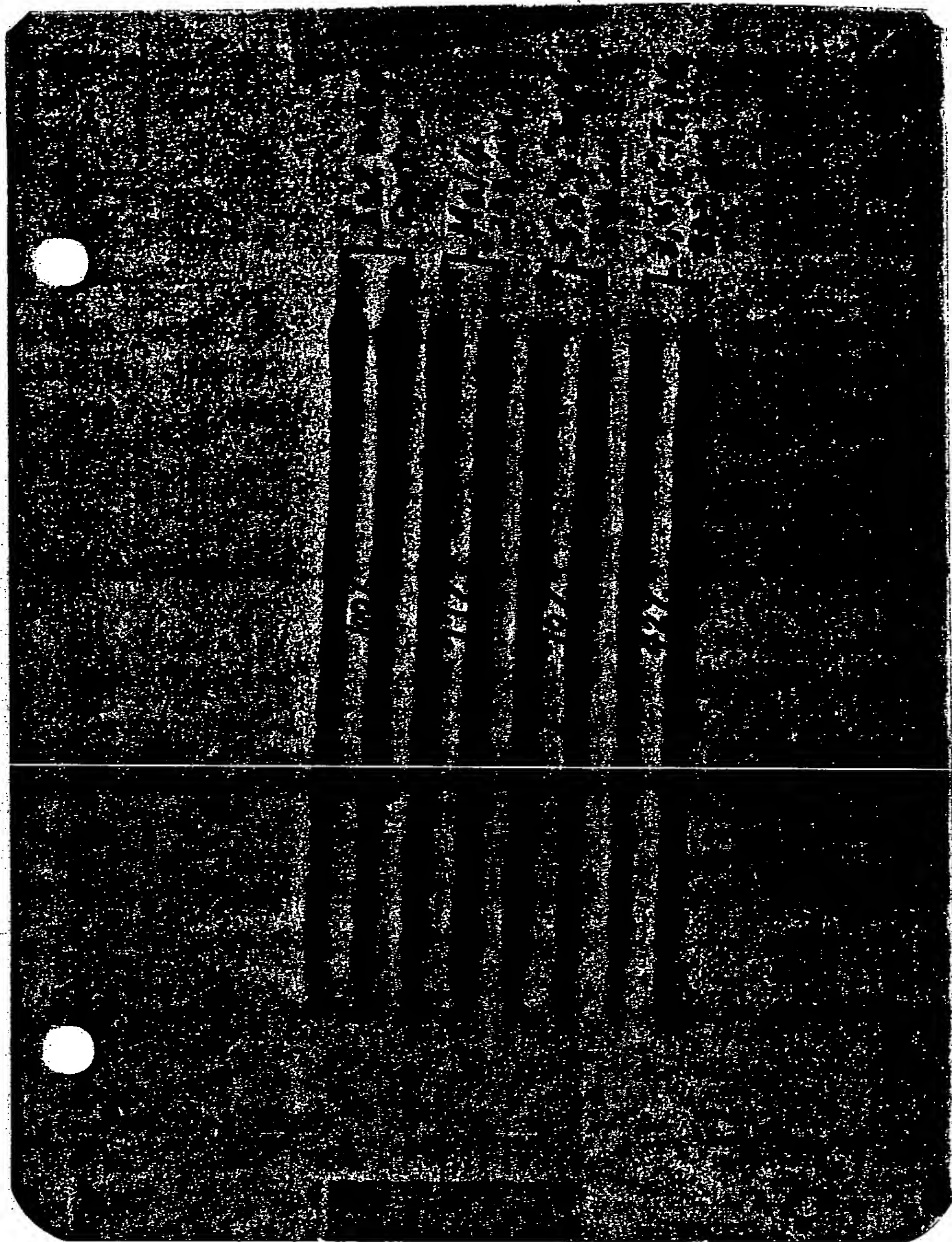
Lane #14 Bkgd subtr =6.07/sqmm

2 42.5 Bkgd 364

1 52.0 Unkn 930

364

566



2-25-96 Test of HSV - pBR 322 Δ 380 template inhibition by Mal 4

Will use 500 nanograms template in 12.8 μ l. Will do Marley at 60% conc. at 160, 190 and 220 ng/ml Mal 4.

1. DNase control . 4 μ l
2. Mal 4 160
3. 190
4. 220

Dissolve DNA in 9.6 μ l H₂O. Add . 4 μ l Mal 4 dilutions and incubate 15 min at 30°. For 60% Marley need 4.5 μ l extract + 3 μ l buffer.

at using 50% extract. Loaded 1/2 μ l.

the 160, 190, 220 Mal 4.

DOCUMENT II

A. DESIGN AND INSTRUCTION
FROM DR. RUCHIH C. HUANG,
INVENTOR, TO DR. H. S. CHEN
FOR CARRYING OUT EXPERIMENTS
USING TETRAMETHYL NDGA
TO INHIBIT HSV IN VERO CELLS
AND TOXICITY STUDIES OF THE
DRUG IN MICE

LETTER DATED IN
MAY 21 AND MAY 24, 1996

B. RESULTS RECEIVED BY
DR. HUANG 6/25/96

JOHNS HOPKINS

UNIVERSITY

Department of Biology

3401 V. Charle St.

Baltimore, MD 21218-3385

Tel: 410-516-7330 FAX: (410) 516-5513

DR. CHEN HONGSHAN

Fax 816-746-6618

2mg NDGA

/ 50 ml DM90. 1900.5-73

: 2002.11.15

① NOGA 与 MAI 4 种酶, 今自 FED EXPRESS 寄上 TETRA METHYL

②, 另外控制 HIV NOGA 250mg 包 - 并寄 DISC 包

Integrate 的 Igo

③ NOGA 对 HIV-1 复制效果

4mg, 1000 Kg

DISC: 2mg/50ml

④ 包 - 并寄, 共 2 包

: ⑤ 包 - 并寄, 共 2 包

⑥ 包 - 并寄, 共 2 包

⑦ 包 - 并寄, 共 2 包

⑧ 包 - 并寄, 共 2 包

⑨ 包 - 并寄, 共 2 包

⑩ 包 - 并寄, 共 2 包

⑪ 包 - 并寄, 共 2 包

⑫ 包 - 并寄, 共 2 包

⑬ 包 - 并寄, 共 2 包

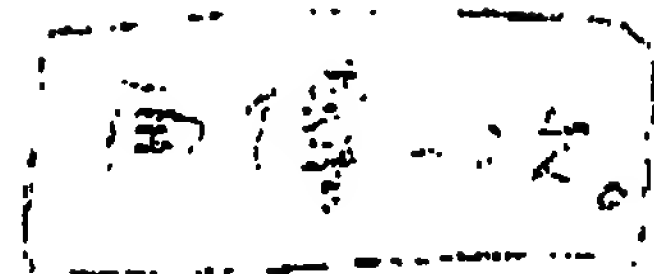
⑭ 包 - 并寄, 共 2 包

JOHNS HOPKINS

Department of Biology

144 Wood Hall, 3450 N. Charles Street
Baltimore, MD 21218-7835
A161 516-7330 FAX 516-516-5210

1996年5月24日



DR. CHUAN HONGSHAN

Fax 516-746-6615

二二五 7477 寄发 可也



要
直
接
接
洽
在

100%
DM50

中
天

二天

打

0.05ul

合
TETRA
-methyle
NOGA
2ug

今日 FED EXPRES: 1.4 TETRA METHYLE NOGA

NOGA 250ug 3 - 100ug 100ug 100ug

INHIBITION OF H5U-1 细胞增殖 (inhibition)

DOSE: 2ug/50ul (50% INHIBITION)

100% 100%, 共 200ug 100ug

二二五 7477 寄发 可也

细胞 H5U-1 (inhibition) 细胞增殖

已决定, 又由 (1) 处查得效果高内定

定 TETRA METHYLE NOGA 100ug 100ug

(2) 100% INHIBITION, 100% INHIBITION

H5U-1 (inhibition) 100% INHIBITION

100% INHIBITION 100% INHIBITION

100% INHIBITION 100% INHIBITION

100% INHIBITION 100% INHIBITION

100% INHIBITION 100% INHIBITION



II B

1996.6.25, 给 李 周 洪 查

C-4N Doc

Table 1. Cytotoxicity and inhibition of HSV-1 CPE by 4N in vero cell cultures

1996, 6-20-25

Agent	Conc. ng/ml	Cytotoxicity(OD570) X ± SD	Inhibition of cell growth %	TC50 ng/ml	HSV-1 CPE (OD570) X ± SD	Inhibition of HSV-1CPE %	IC50 ng/ml
4-N	1000.00	0.03, 0.03, 0.03, 0.02 0.03 ± 0.01	97.05	83	0.04, 0.05, 0.00, 0.00 0.02 ± 0.03	-	<0.98
	500.00	0.03, 0.04, 0.05, 0.04 0.04 ± 0.01	96.08		0.05, 0.11, 0.07, 0.04 0.07 ± 0.03	-	
	250.00	0.30, 0.30, 0.30, 0.30 0.3 ± 0	70.59		0.30, 0.26, 0.22, 0.28 0.27 ± 0.03	-	
	125.00	0.34, 0.38, 0.36, 0.39 0.37 ± 0.02	63.73		0.57, 0.45, 0.62, 0.60 0.56 ± 0.08	31.5	
	62.50	0.45, 0.46, 0.45, 0.45 0.45 ± 0.01	55.88		0.52, 0.49, 0.68, 0.66 0.59 ± 0.10	34.8	
	31.30	0.81, 0.80, 0.86, 0.85 0.83 ± 0.03	18.63		0.90, 0.84, 0.79, 0.87 0.85 ± 0.05	64	
	15.60	1.08, 1.02, 1.00, 0.98 1.02 ± 0.04	0		0.72, 0.92, 0.68, 0.92 0.81 ± 0.13	59.6	
	7.80	1.25, 1.04, 1.00, 1.11 1.10 ± 0.11	-0.08		0.74, 0.79, 0.96, 1.03 0.88 ± 0.14	67.4	
	3.90	1.10, 1.08, 1.06, 1.08 1.08 ± 0.02	-0.06		0.79, 1.07, 0.83, 0.76 0.86 ± 0.14	65.2	
	1.95	1.10, 1.20, 1.22, 1.00 1.10 ± 0.1	-0.08		0.78, 0.85, 0.81, 0.76 0.80 ± 0.04	58.4	
	0.98	1.30, 1.25, 1.15, 1.15 1.20 ± 0.08	-0.18		0.83, 0.73, 0.80, 0.83 0.80 ± 0.05	58.4	
	CC	1.02, 1.03, 1.00, 1.04 1.02 ± 0.02			1.13, 1.22, 1.18, 1.15 1.17 ± 0.04		
	vc X ± SD				0.24, 0.29, 0.31, 0.26 0.28 ± 0.03		

Table 2. Inhibition of HSV-1 CPE by ACV on vero cell
1996, 6, 20-25.

Agent	CONC. ug/ml	HSV-1 CPE(OD570)	Inhibition %	IC50 ug/ml
ACV	1000 X± SD	0.70,0.53,0.57,0.62 0.61± 0.07	37	<0.98
	500 X± SD	0.63,0.38,0.62,0.49 0.53± 0.12	28.1	
	250 X± SD	0.50,0.49,0.64,0.87 0.63± 0.18	39.3	
	125 X± SD	0.41,0.43,0.53,0.66 0.51± 0.11	25.8	
	62.5 X± SD	0.73,0.72,0.73,0.76 0.74± 0.02	51.7	
	31.3 X± SD	0.93,0.90,0.86,0.93 0.91± 0.03	70.8	
	15.6 X± SD	1.00,0.99,0.98,1.02 1.00± 0.02	80.9	
	7.8 X± SD	1.09,1.11,1.16,1.10 1.12± 0.03	94.4	
	3.9 X± SD	1.13,1.07,1.10,1.09 1.10± 0.03	92.1	
	1.95 X± SD	1.14,1.12,1.17,1.11 1.14± 0.03	96.6	
	0.98 X± SD	0.76,0.80,0.82,0.92 0.83± 0.07	61.8	
	CC X± SD	1.13,1.22,1.18,1.15 1.17± 0.04		
	VC X± SD	0.24,0.29,0.31,0.26 0.28± 0.03		

①

医药生物技术研究所

4N 在 Vero 30 电镜片						96.6.25
第 1 号	30 电镜片 (570)	2 级电镜片	T ₅₀			
1000	0.03 0.03 0.03 0.02	97.05	83.49/m1			
$\bar{x} \pm SD$	0.03 \pm 0.01					
500	0.03 0.04 0.05 0.04	96.08				
$\bar{x} \pm SD$	0.04 \pm 0.01					
250	0.3 0.3 0.3 0.3	70.59				
$\bar{x} \pm SD$	0.3 \pm 0					
125	0.34 0.38 0.36 0.39	63.73				
$\bar{x} \pm SD$	0.37 \pm 0.02					
62.5	0.45 0.46 0.45 0.45	55.88				
$\bar{x} \pm SD$	0.45 \pm 0.01					
31.3	0.81 0.80 0.86 0.85	18.63				
$\bar{x} \pm SD$	0.83 \pm 0.03					
15.6	1.08 1.02 1.00 0.98	0	CC 1.02 1.03 1.00			
$\bar{x} \pm SD$	1.02 \pm 0.04		1.02 \pm 0.02			
7.8	1.25 1.04 1.00 1.11	-0.08				
$\bar{x} \pm SD$	1.1 \pm 0.11		VL 0 0 0.0			
3.9	1.10 1.08 1.06 1.08	-0.06				
$\bar{x} \pm SD$	1.08 \pm 0.02					
1.95	1.10 1.20 1.22 1.00	-0.08				
$\bar{x} \pm SD$	1.1 \pm 0.1					
0.98	1.30 1.25 1.15 1.15	-0.18				
L605	1.2 \pm 0.08					

②

医药生物技术研究所

4N HSV-I 抑制实验

9.6.6.25

浓度 $\mu\text{g}/\text{ml}$ 0.05 (570nm)

抑制率 %

IC₅₀ ($\mu\text{g}/\text{ml}$)

1000 0.04 0.05 0.00 0.00 92.86 40.98

0.02 ± 0.03

500 0.05 0.11 0.07 0.04 75.50

0.07 ± 0.03

250 0.30 0.16 0.18 3.57

0.27 ± 0.03

125 0.57 0.45 0.62 0.60 31.5

0.56 ± 0.08

62.5 0.52 0.49 0.68 0.66 34.8

0.59 ± 0.10

31.3 0.90 0.84 0.79 0.87 64.00

0.85 ± 0.05

15.6 0.75 0.92 0.68 0.92 59.6

0.81 ± 0.13

7.8 0.74 0.79 0.96 1.03 67.4

0.88 ± 0.14

3.9 0.79 1.07 0.83 0.76 65.2

0.86 ± 0.14

1.95 0.78 0.85 0.81 0.76 58.4

0.80 ± 0.04

0.98 0.83 0.73 0.80 0.83 58.4

0.80 ± 0.05

0.0 1.13 1.22 1.18 1.15

1.17 ± 0.04

VQ L605 0.24 0.29 0.31 0.26

0.28 ± 0.03

③

医药生物技术研究所

ACN 3044 2000 88 HSN-I 400

96.6.15

1000

0.70

0.53 0.57 0.62

抑制率 %

IC₅₀ 1000

0.61 ± 0.07

100

0.63 0.38 0.62 0.49

0.53 ± 0.12

Q

100

0.50 0.49 0.64 0.87

39.3

0.63 ± 0.18

100

0.41 0.43 0.53 0.66

25.8

0.51 ± 0.11

60.5

0.73 0.73 0.73 0.76

51.7

0.74 ± 0.02

31.3

0.93 0.90 0.86 0.93

70.8

0.91 ± 0.03

15.6

1.00 0.99 0.98 1.02

80.9

1.00 ± 0.02

7.8

1.09 1.11 1.16 1.10

96.4

1.12 ± 0.03

Q

3.9

1.13 1.07 1.10 1.09

92.1

1.10 ± 0.03

1.25

1.14 1.12 1.17 1.11

96.6

1.14 ± 0.03

0.98

0.76 0.80 0.82 0.92

61.8

0.83 ± 0.07

96

1.13 1.22 1.18 1.15

1.17 ± 0.04

VCL 605

0.24 0.29 0.31 0.26

0.28 ± 0.03

实验者: 陈洪彬 滕磊

1006 6.20